

Sacramento Valley Water Quality Coalition

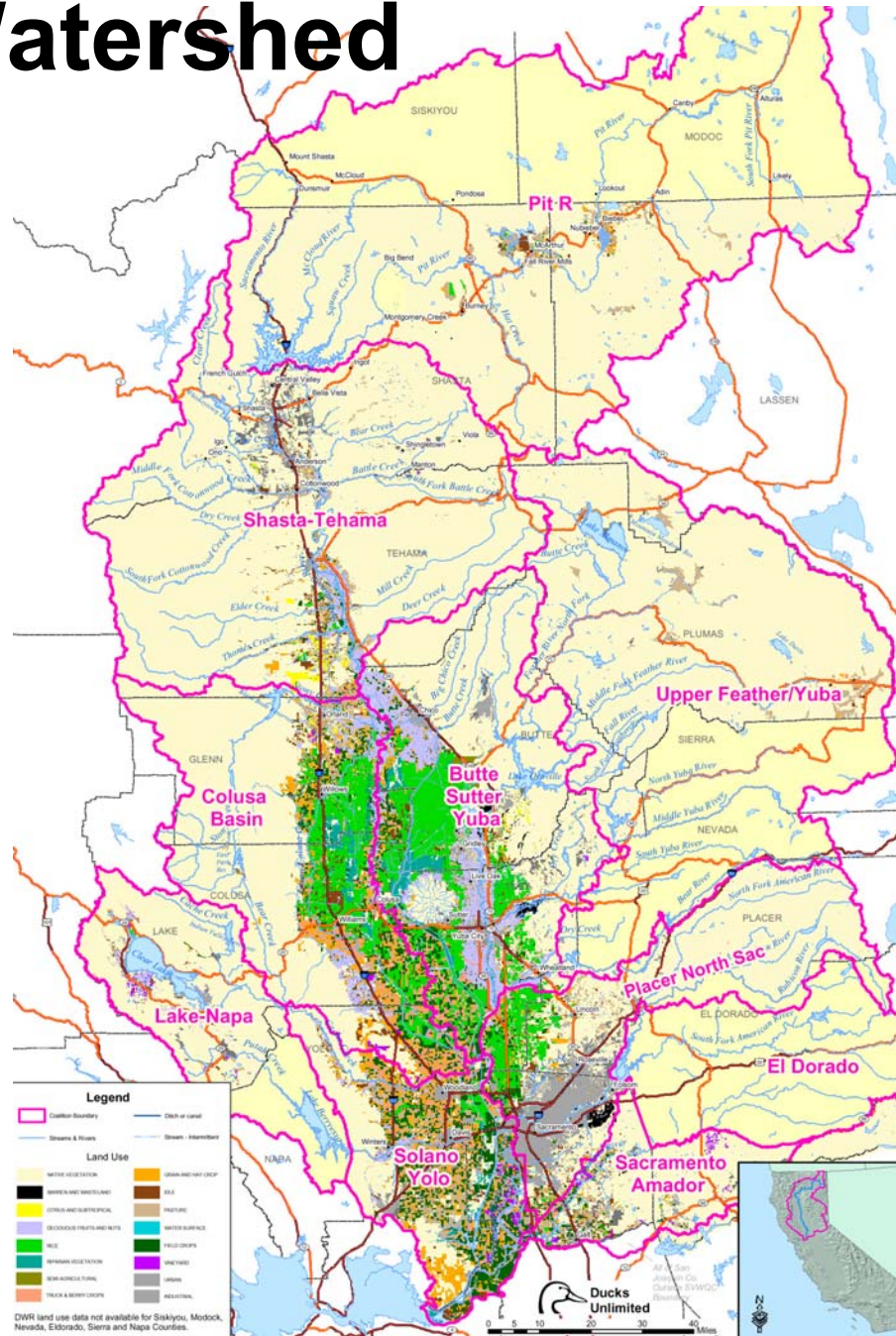
November 22, 2004



Sacramento River Watershed

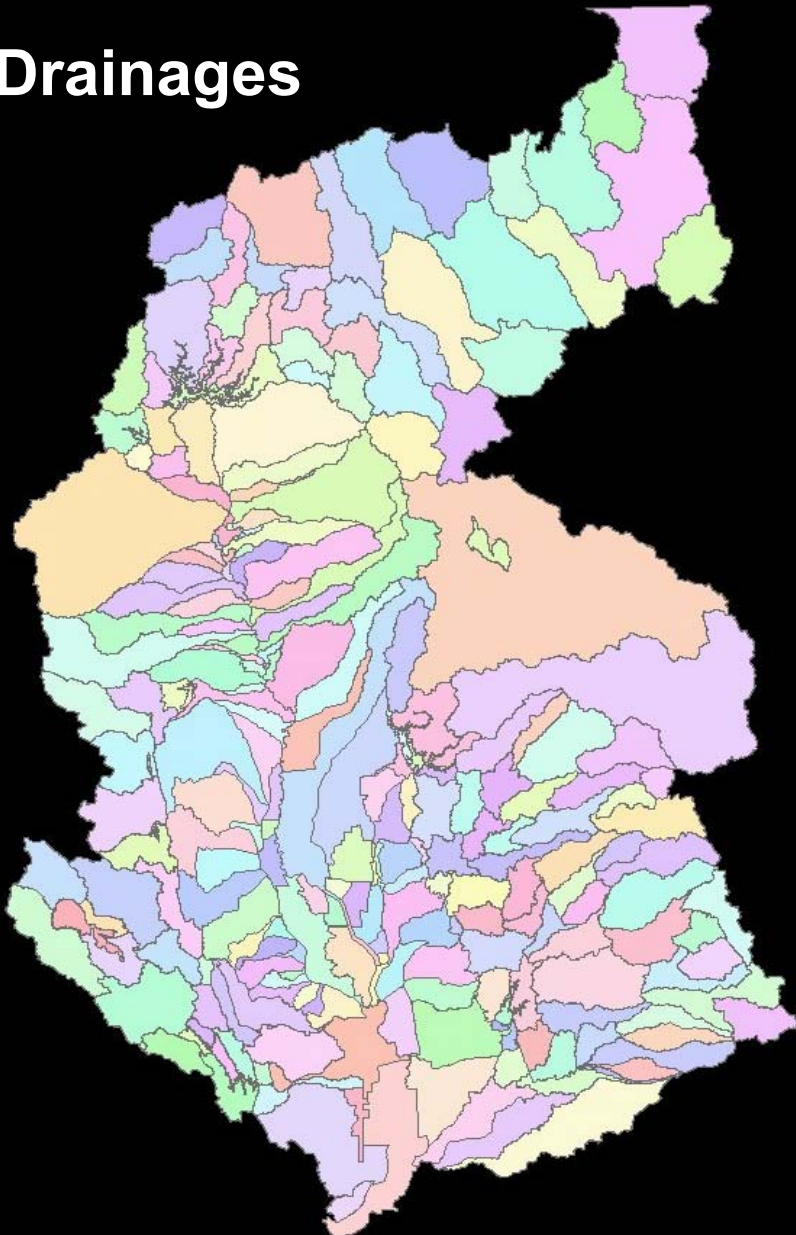
Approx. 1.75 Million Irrigated Acres

Primary Rivers: Sacramento, Feather, Yuba, American, Cosumnes, and Pit



Watershed Evaluation Report

Drainages



Watershed Setting

- ▷ General Characteristics
- ▷ Agricultural Characteristics
- ▷ Water Quality

Watershed Priorities

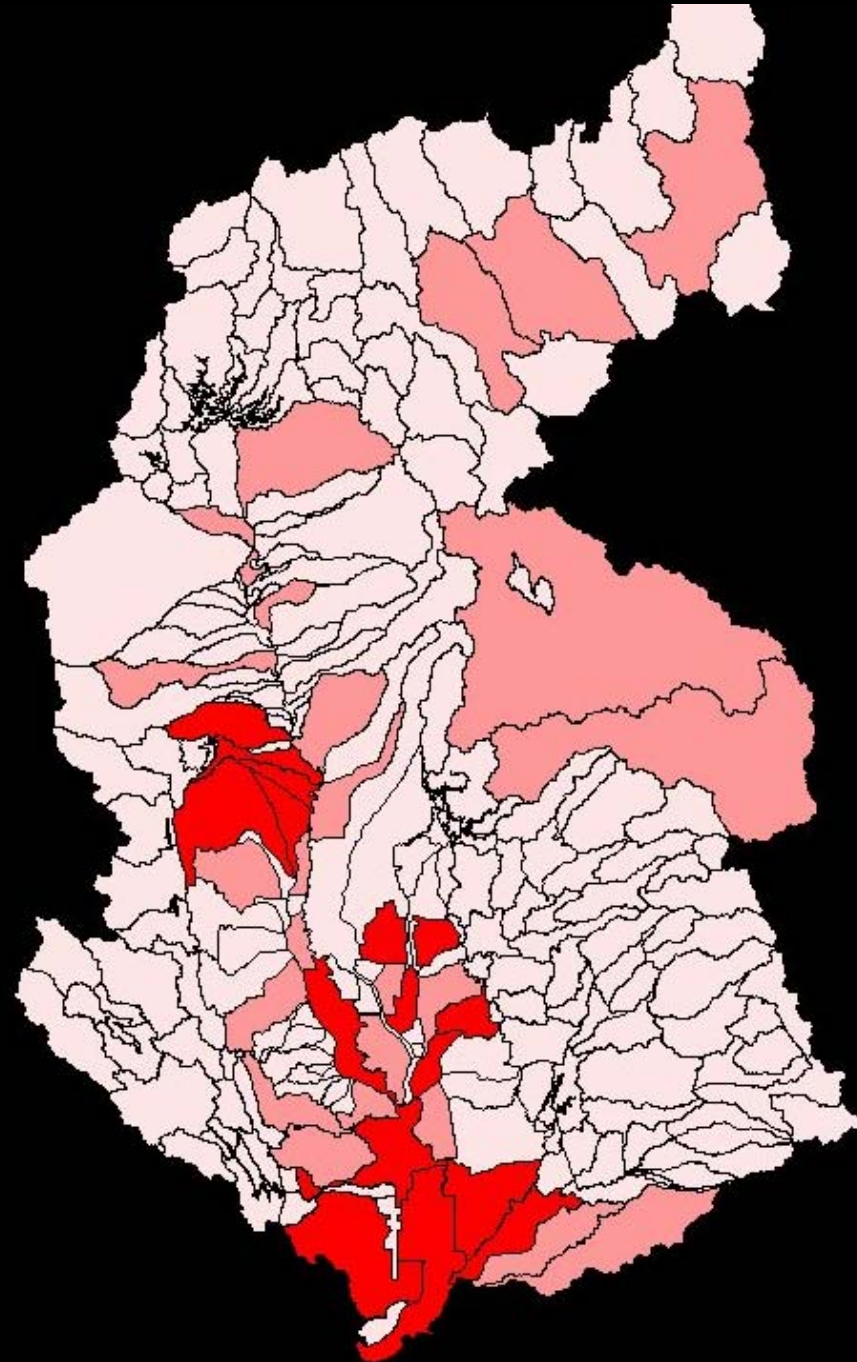
- ▷ Crop Weighted Acreage Index
- ▷ Pesticide Ranking
- ▷ 303 d listed Streams (*Ag Sources*)

Priority Drainages

Candidate Sites (42 Priority Drainages)

Local Input

- ▷ Monitoring Site selection
 - Characterizes the potential water quality impact of irrigated lands drainage in a distinct geographical area
 - Provides baseline for future upstream analysis
- ▷ Timing Flow Regimes
- ▷ Access



Drainage Prioritization and Monitoring Sites

Pit River

2 of 3 highest priority drainages

Colusa Basin

All 5 high priority drainages to be monitored

3 of 5 Medium priority drainages to be monitored

Main drain (Lower & Upper Colusa Drain) to be monitored

Yolo-Solano

3 highest priority drainages to be monitored

Upper Feather-Upper Yuba

2 highest priority drainages to be monitored (using 4 sites)

Butte-Yuba-Sutter

5 of 6 high priority drainages

1 of 4 medium priority drainages

Main drain (Sutter Bypass) monitored

Placer-North Sacramento-South Sutter-Nevada

2 highest priority drainages captured

El Dorado

Highest priority drainages to be monitored

Sacramento-Amador

Highest priority drainage to be monitored

Representative foothill agriculture (vineyards) to be monitored

Shasta-Tehama

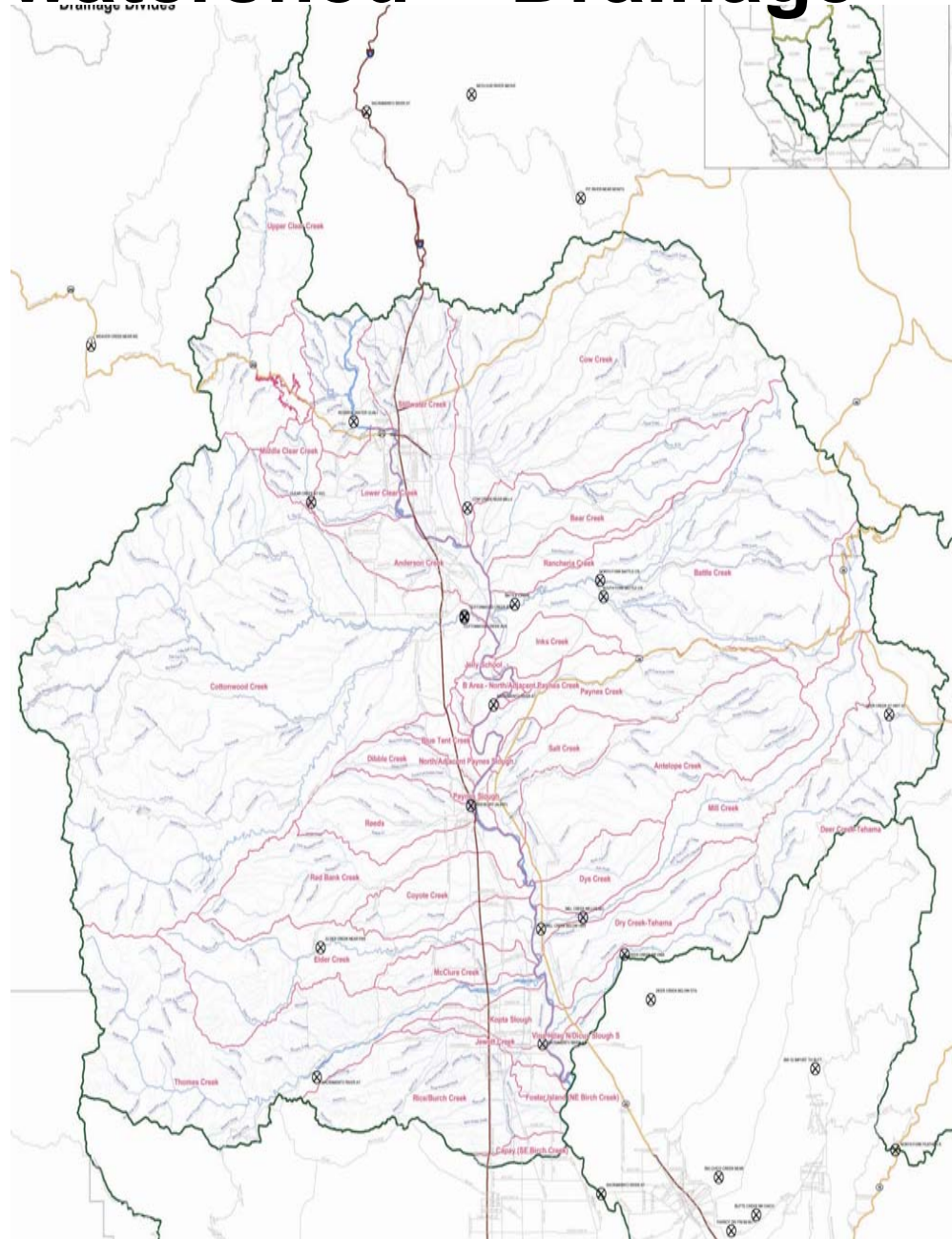
2 of 5 highest priority drainages

Shasta/Tehama Subwatershed -- Drainage

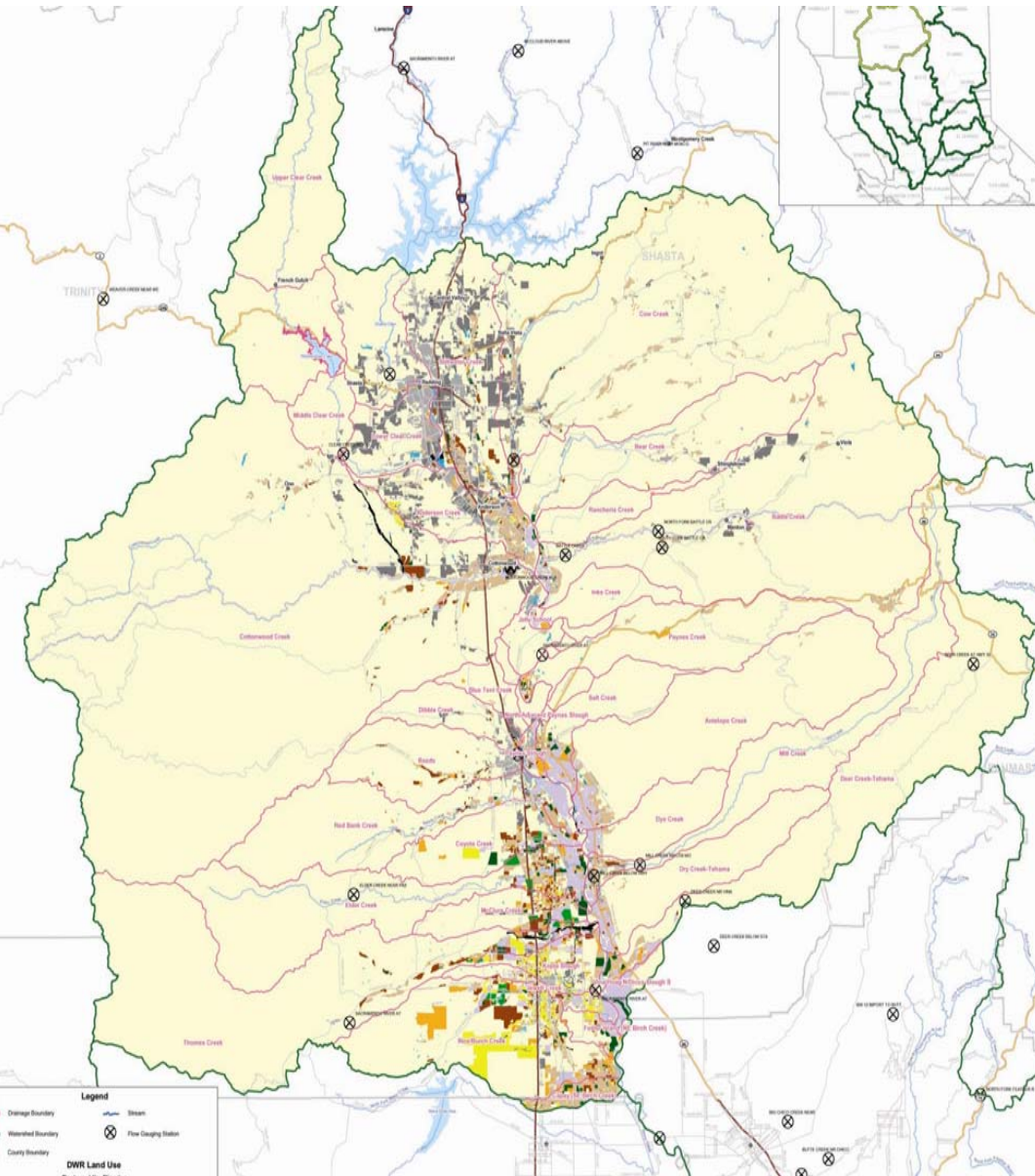
Complex River and Stream System

**Minimal
Constructed
Drainage**

**Numerous
Ephemeral Streams**



Shasta/Tehama Subwatershed -- Land use



**Irrigated Acres:
160,000**

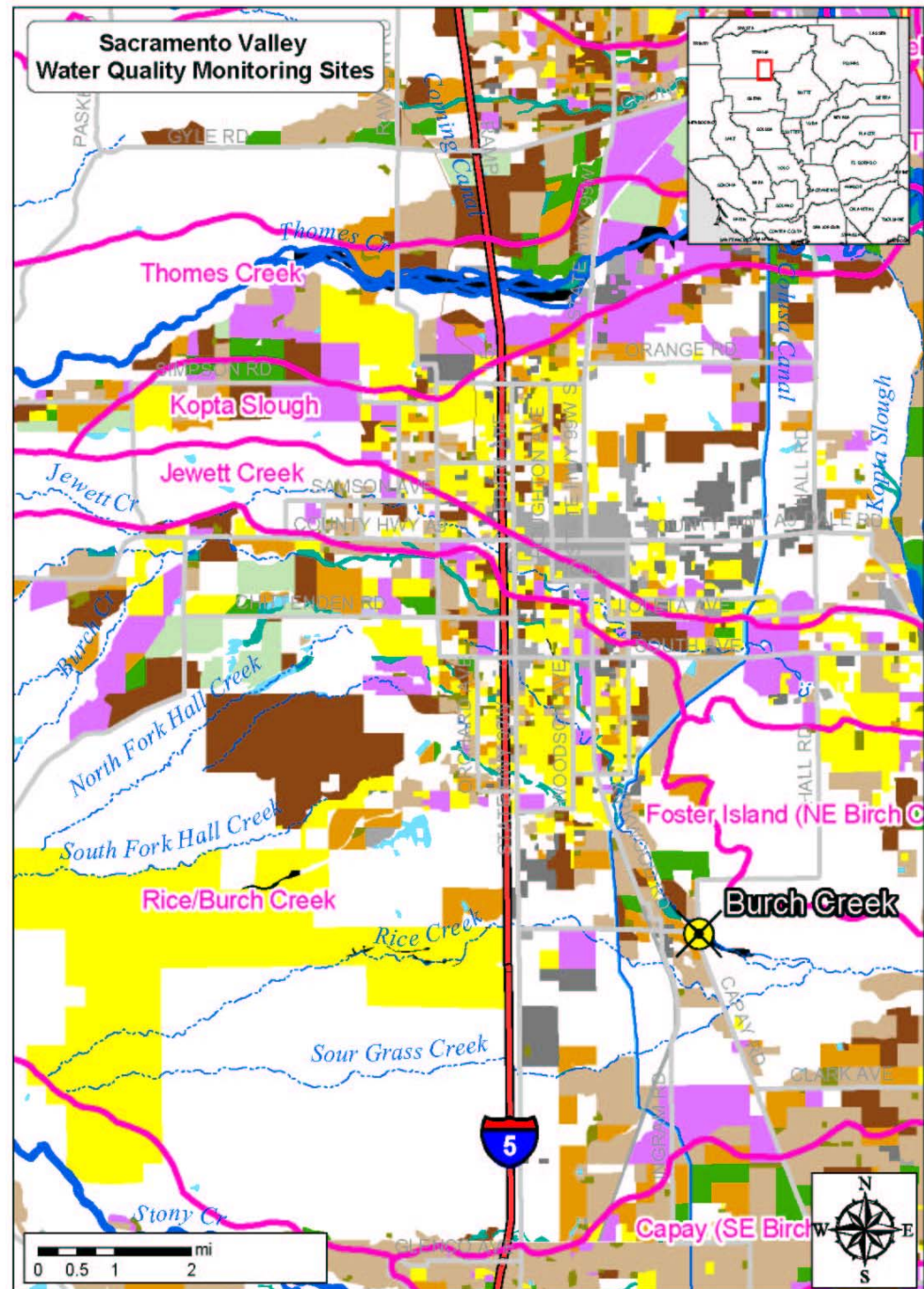
Orchards, Pasture

Burch Creek

**Representative
Orchard Site**

**Drains: 26,000
Irrigated Acres**

**Highest
Subwatershed
Priority: Acreage,
Crop Type,
Pesticides**



Colusa Basin Subwatershed -- Drainage

**Mixed Drainage:
Natural,
Constructed**

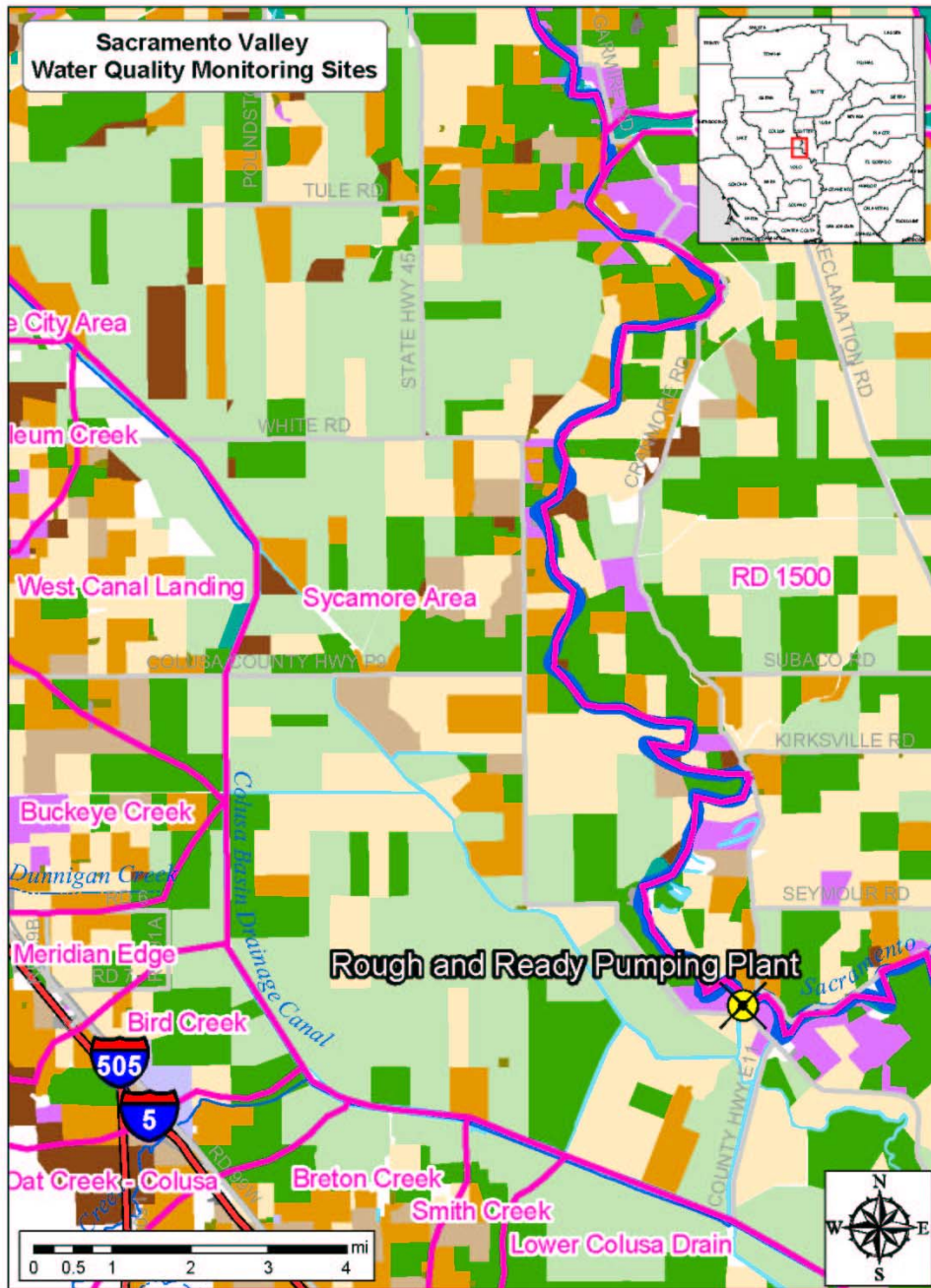
**Linked By The
Colusa Basin Drain**

Colusa Basin Subwatershed -- Land Use

**Irrigated Acres:
345,000**

**Row Crops,
Orchards, Pasture**

Sycamore Area



**Highest Priority
Drainage Area
In Basin**

**Drains Approx.
60,000 acres**

**Tomatoes and
Safflower, Corn,
and Other Row
Crops**

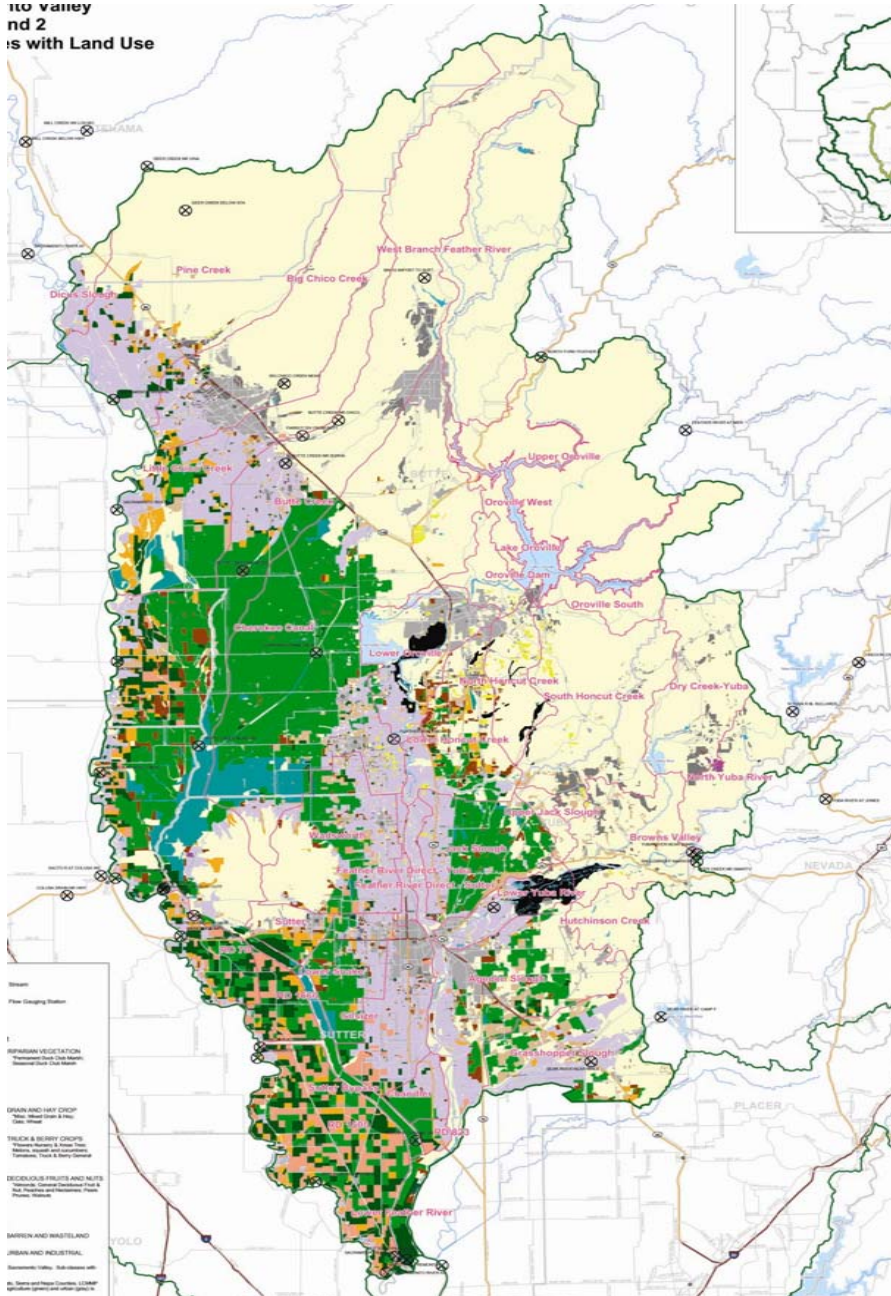
Butte/Yuba/Sutter – Drainage

**Highly
Constructed
Drainage System**

**Sutter Bypass,
Feather River,
Yuba and Bear
River**

Butte/Yuba/Sutter – Land Use

Butte Valley
and 2
is with Land Use



Approx. 50%. Non-Rice Acreage Is In Orchards

25% Annuals

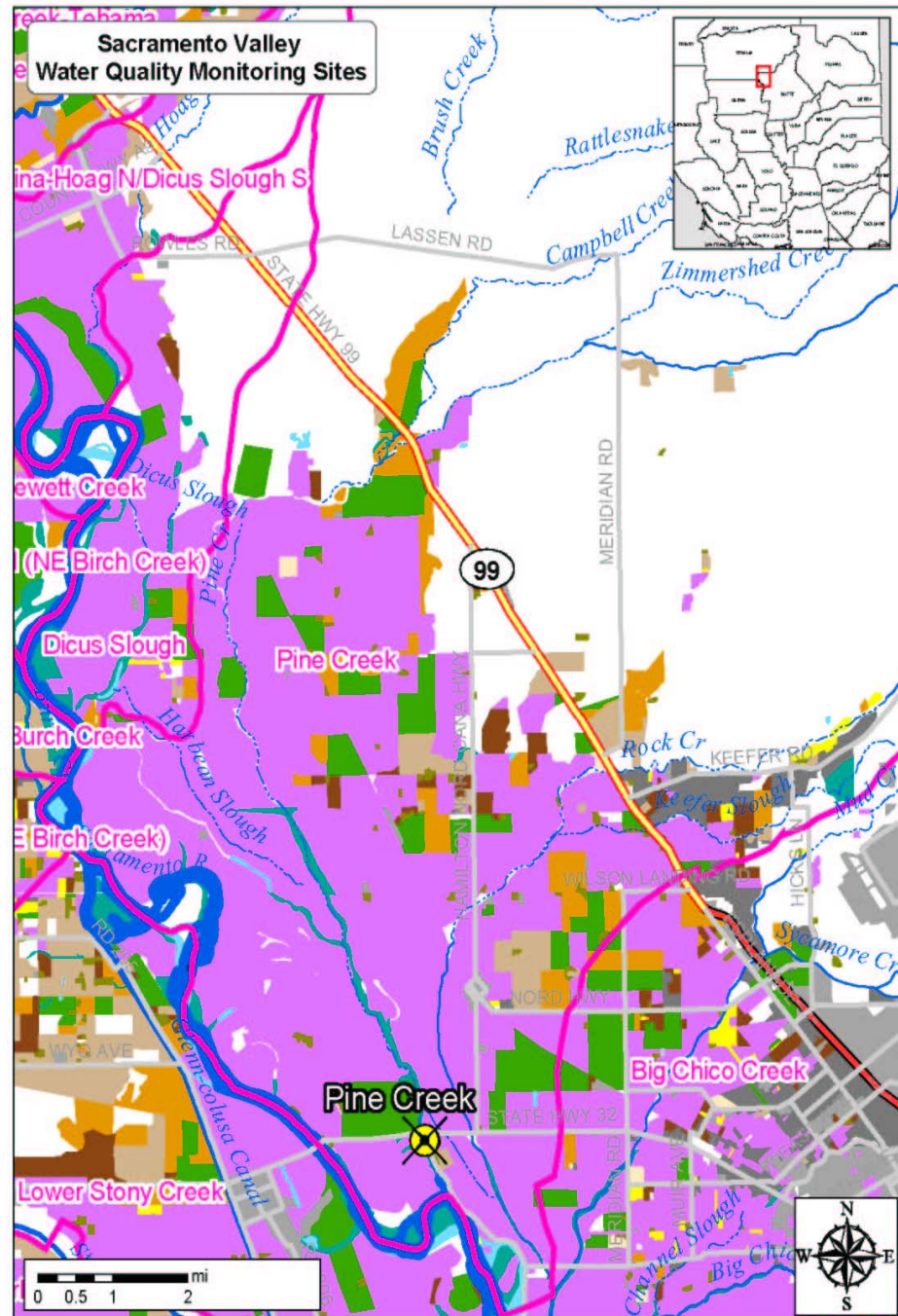
25% Pasture

Pine Creek

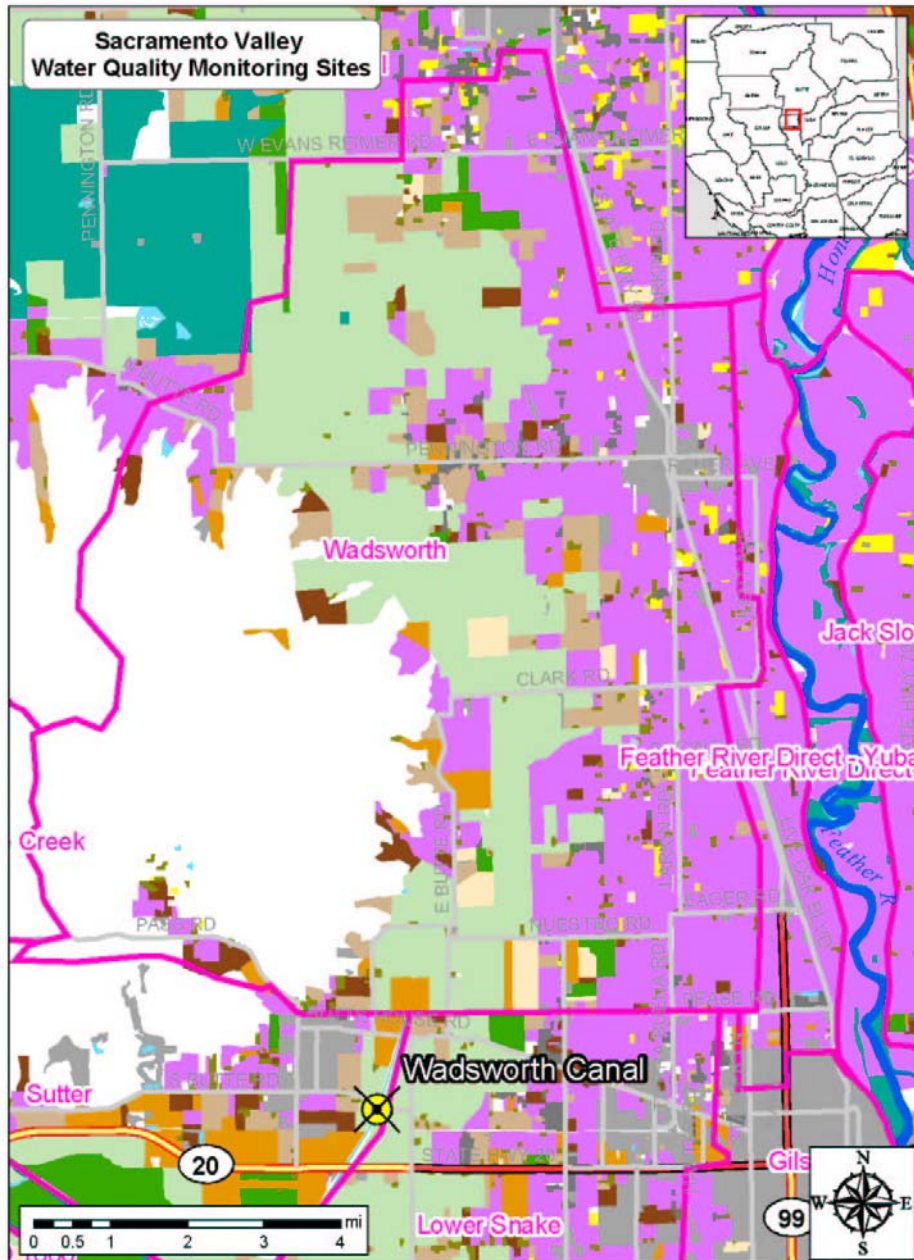
**Drains Approx.
28,000 acres**

**Representative
Orchard Acreage**

**Creek Flows to
Sacramento River**



Wadsworth Canal



**High Priority
Orchard Area Drain**

Diazinon TMDL

**Drains Approx.
23,000 acres**

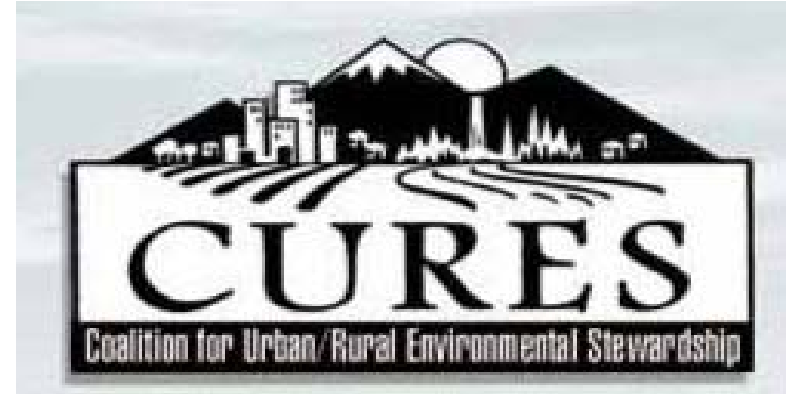
Participating Organizations



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